

# Sepehr Dehdashtian

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## Education

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Michigan State University | Ph.D. in Computer Science Jun. 2022 – Present

- **Focus:** Responsible AI, Generative AI, Multimodal Models, Computer Vision
- **GPA:** 4.0/4.0

Sharif University of Technology | M.Sc. in Electrical Engineering Sep. 2018 – Feb. 2021

- **GPA:** 3.87/4.0

Shahid Chamran University of Ahvaz | B.Sc. in Electrical Engineering Sep. 2014 – Aug. 2018

- **GPA:** 3.93/4.0 (ranked 1<sup>st</sup>)

## Publications

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**OASIS Uncovers: High-Quality T2I Models, Same Old Stereotypes** 2025

[Sepehr Dehdashtian](#), Gautam Sreekumar, Vishnu Naresh Boddeti

International Conference on Learning Representations (ICLR) 2025 (**Spotlight**)

**Fairness and Bias Mitigation in Computer Vision: A Survey** 2024

[Sepehr Dehdashtian](#)\*, Ruozhen He\*, Yi Li, Guha Balakrishnan, Nuno Vasconcelos, Vicente Ordonez, Vishnu Naresh Boddeti

IEEE Transaction on Pattern Analysis and Machine Intelligence (TPAMI) (Under Review)

**The Dark Side of Dataset Scaling: Evaluating Racial Classification in Multimodal Models** 2024

Abeba Birhane\*, [Sepehr Dehdashtian](#)\*, Vinay Prabhu, Vishnu Naresh Boddeti

ACM Conference on Fairness, Accountability, and Transparency (FAccT) 2024

**Utility-Fairness Trade-Offs and How to Find Them** 2024

[Sepehr Dehdashtian](#), Bashir Sadeghi, Vishnu Naresh Boddeti

IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2024

**FairerCLIP: Debiasing CLIP's Zero-Shot Predictions using Functions in RKHSs** 2024

[Sepehr Dehdashtian](#)\*, Lan Wang\*, Vishnu Naresh Boddeti

International Conference on Learning Representations (ICLR) 2024

**On characterizing the trade-off in invariant representation learning** 2022

Bashir Sadeghi, [Sepehr Dehdashtian](#), Vishnu Naresh Boddeti

Transactions on Machine Learning Research (TMLR)

**Deep-Learning Based Blind Recognition of Channel Code Parameters over Candidate Sets under AWGN and Multi-Path Fading Conditions** 2021

[Sepehr Dehdashtian](#), Matin Hashemi, Saber Salehkaleybar

IEEE Wireless Communications Letters

## Professional Experience

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Research Intern at Reality Defender (Mentor: Dr. Jacob Seidman) Dec. 2024 – Present

- Identified failure modes of deepfake detectors using LLM fine-tuning with RL and Agentic AI.

## Research Assistant at Michigan State University

Jun. 2022 – Present

- Developed algorithms to make computer vision, multimodal, and generative models fair and debiased.
- Published papers in top computer vision and machine learning conferences: ICLR'25, ICLR'24, CVPR'24.

## Research Assistant at Sharif University of Technology

Nov. 2018 – Feb. 2021

- Developed deep learning based methods for blind recognition of channel codes.
- Published a research paper in IEEE Wireless Communication Letters.

## Awards & Honors

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| • ICLR 2025 Spotlight Paper (Top 5%)   | 2025 |
| • Interdisciplinary Inquiry and Teaching Fellowship                                | 2025 |
| • STEAMpower Fellowship  | 2024 |
| • TMLR Outstanding Paper Award Runner-Up and TMLR Featured Certification Award     | 2023 |
| • Ranked 2nd GPA the graduating class of 2021   Sharif University of Technology    | 2021 |
| • Ranked 1st GPA the graduating class of 2018   Shahid Chamran University of Ahvaz | 2018 |

## Technical Skills

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**Languages:** Python, C++, CUDA, Verilog, VHDL

**ML Frameworks:** PyTorch, PyTorch-Lightning, TensorFlow, Keras, OpenCV, Scikit-Learn

**Others:** RevealJS, Git, MATLAB, FPGA

## Projects

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| • Mitigating Political Bias in Pre-Trained Large Language Models       | 2023 |
| • Visually Explaining Fair Representation Learning—A Model Perspective | 2023 |
| • Video Synopsis using OpenCV in Python                                | 2019 |

## Services & Activities

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| • Reviewer: ICLR, NeurIPS   | Jan. 2024 – present |
| • Mentored Student: Yilin Zheng (Master Student at MSU)               | Jan. 2024 – present |
| • Scientific-Students Associations of Clean Energy   Deputy Secretary | 2016                |
| • Scientific-Students Associations of EE Department   Member          | 2015                |